

[ABSTRACT]

The present invention relates to a cathode ray tube, and more particularly, to a cathode ray tube of which outside surface is substantially flat and of which inside surface is curved at a predetermined curvature. The cathode ray tube includes: an inside surface having a designated curvature; a central portion having a transmission rate of 45-75%; and an outside surface being substantially flat with a flatness ratio (F) satisfying a

mathematical formula of
$$F = \frac{Ro}{Sd \times 1.767}$$
, where Ro denotes a diagonal curvature radius of the outside surface and Sd denotes a diagonal length of an effective surface of the panel; the flatness ratio (F) of the outside surface is greater than 21; and a thickness at the central portion of the panel, CFT, a thickness of a vertical axis end, Tv, and a thickness of a diagonal end, Td, satisfy conditions of $1.4 < Td/CFT < 2.0$ and $0.93 < Tv/Td < 1.00$.

[REPRESENTATIVE DRAWING]

FIG. 4

[INDEX WORD]

Cathode ray tube, Panel